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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/930,120	08/14/2001	Ken Hanscom	Q00-1027-US1 / 11198.70	9955
66943	7590	11/09/2009	EXAMINER	
James P. Broder Roeder & Broder LLP 9915 Mira Mesa Blvd. Suite 300 San Diego, CA 92131			RIVERA, WILLIAM ARAUZ	
		ART UNIT		PAPER NUMBER
		3654		
		MAIL DATE	DELIVERY MODE	
		11/09/2009	PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/930,120	HANSCOM, KEN	
	<b>Examiner</b>	<b>Art Unit</b>	
	William A. Rivera	3654	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on \_\_\_\_\_.  
 2a) This action is **FINAL**.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-29 and 34-42 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) 14-29,34 and 36-42 is/are allowed.  
 6) Claim(s) 1-13 and 35 is/are rejected.  
 7) Claim(s) \_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____. 5) <input type="checkbox"/> Notice of Informal Patent Application
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____. 6) <input type="checkbox"/> Other: _____.	

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

—  
A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 10, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Daly (U.S. Patent No. 5,199,168).

With respect to Claims 1, 10, and 13, Daly, Figures 1-7, teaches a guide assembly, the guide assembly comprising: a rotatable first roller 20,R including a perimeter surface, a circumference, a longitudinal axis and a groove 52,54 disposed into the perimeter surface, the groove having a groove length in a direction along the circumference, and a groove bottom that is substantially linear in a direction along the groove length; including a roller mount wherein the roller is rotatably mounted on the roller mount approximately on at least a portion of the longitudinal axis; a tape drive including the guide assembly, a take-up 14 and a head assembly 12.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2-4 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daly (U.S. Patent No. 5,199,168) as applied to Claims 1, 10, and 13 above and further in view of Sawano et al (Japanese Patent No. 10-106074).

With respect to Claims 2-4 and 12, Daly is advance above. Daly teaches all the elements of the guide roller except for a groove having a groove length less than the circumference. However, Sawano et al, Figures 1-3, teach a guide with a plurality of spaced apart grooves, each of the grooves having a groove length that is less than the circumference; wherein the grooves are aligned substantially parallel to the circumference; the grooves are semi-randomly distributed on the perimeter surface. It would have been obvious to one of ordinary skill in the art to provide Daly with a groove on the guide roller, as taught by Sawano et al, for the purpose of controlling dynamic air entrainment between the roller surface and the magnetic tape as well as minimizing the friction between the tape and the guide roller.

Claims 5-9 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daly in view of Sawano et al as applied to claims 1-4, 10, 12-13, 26-27, 30-32 above.

With respect to Claims 5-9 and 35, Daly in view of Sawano et al are advanced above. Daly in view of Sawano et al do not mention the particular dimensions of the grooves. However, it would have been obvious to one of ordinary skill in the art, as determined through routine experimentation and optimization, to dimension the grooves of Daly in view of Sawano et al as specified in Claims 5-9, 11, and 35 because one of ordinary skill would have been expected to have routinely experimented to determine the optimum dimensions for a particular use.

Claims 5-9, 11-12, and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hikita as applied to claims 1-4 and 10 above or Hikita as applied to claims 1-4, 10, 14-15, 20-21 and 26-27 above.

With respect to Claims 5-9, 11, and 35, Daly in view of Sawano are advanced above. Daly in view of Sawano do not mention the particular dimensions of the grooves. However, it would have been obvious to one of ordinary skill in the art, as determined through routine experimentation and optimization, to dimension the grooves of Daly in view of Sawano as specified in Claims 5-9, 11, and 35 because one of ordinary skill would have been expected to have routinely experimented to determine the optimum dimensions for a particular use.

***Allowable Subject Matter***

Claims 14-29, 34, and 36-42 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 14-29, 34, and 36-42 are allowable over the prior art of record because the prior art of record does not teach or suggest the entire combination of elements of the guide assembly set forth including a roller including a perimeter surface, a circumference, and a plurality of discontinuous grooves disposed into the perimeter surface, one of the grooves having a groove depth that varies in a direction along a length of the groove. None of the references of the prior art teach or suggest a roller having a groove with a groove depth that varies in a direction along a length of the groove as advanced above and such do not provide the necessary motivation, absent applicant's specification, for modifying the guide roller in the manner required by the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

***Response to Arguments***

Applicant's arguments filed June 30, 2009 have been fully considered but they are not persuasive.

With respect to applicant's remarks on Page 10 regarding the Daly reference, it should be noted that applicant's remarks are not commensurate with the scope of the claim, i.e., applicant is not claiming a straight line. Further, the examiner shows a bottom groove that is substantially linear at 52,54 and not element 50 as applicant is suggesting.

With respect to applicant's remarks regarding the combination of Daly in view of Sawano, the examiner recognizes that references cannot be arbitrarily combined and that there must be some reason why one skilled in the art would have been motivated to make the proposed combination of primary and secondary references. However, there is no requirement that a motivation to make the modification be expressly articulated in the primary reference. The test for combining references is what the combination of disclosures taken as a whole would have suggested to one of ordinary skill in the art. References are evaluated by what they suggest to one versed in the art, rather than by their specific disclosures.

***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William A. Rivera whose telephone number is 571-272-6953. The examiner can normally be reached on Monday to Friday - 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Q. Nguyen can be reached on 571-272-6952. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/William A Rivera/  
Primary Examiner, Art Unit 3654

November 7, 2009